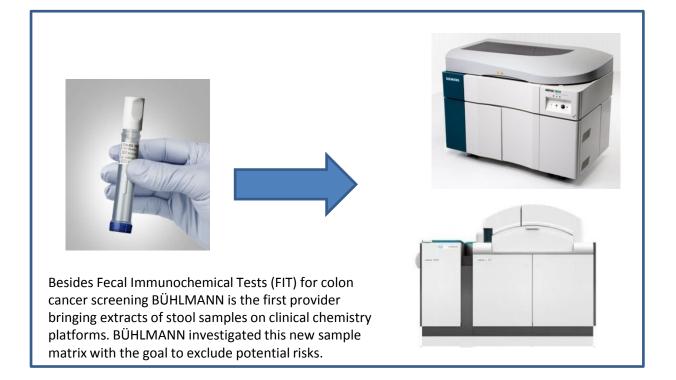
) O BÜHLMANN

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BÜHLMANN fCAL® turbo

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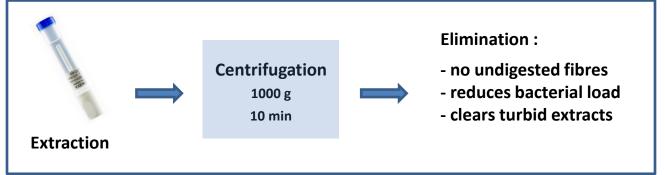
Safe stool extract application on clinical chemistry platforms with BÜHLMANN fCAL® turbo and CALEX® by centrifugation



General concerns and risks

- Clogging of analyzer probes by undigested diet fibres
- Bacterial contamination of system and samples
- Turbid extracts potentially interfere with turbidity measurement
- Bacterial sample carry over
- Assay interferences to other parameters

Safe use of stool extracts by centrifugation



Bacterial load down to urine sample levels

recovery abs

2'000-50'000 CFU

% recovery

100%

1-5%

~3%

95%

Fresh fecal sample were extracted in CALEX, diluted (1:400) and plated on TSS agar plates (rich medium), incubated and colony forming units per ml (CFU) counted.

fresh extract 100'000-2.5 Mio CFU centrifuged (10 min; 3000g) centrifuged (10 min; 1000g) centrifuged (10 min; 500g)

urine sample urine sample stored 24 h urine sample UTI

100-10'000 CFU
up to 100'000 CFU
>>100'000 - Mio CFU

Fresh fecal samples were extracted in CALEX, centrifuged and tested in fCAL turbo on Mindray BS-380. The following sample (Serum or TSB medium) were plated on TSS agar plates. Plates were incubated and CFU counted.

input up to Carry over to serum (2x) Carry over to TSB medium (2x)

360'000 CFU **0 CFU** 3 CFU

Neglectable bacterial sample carry over

After running >3000 stool extracts on a Mindray BS-380, commercial controls of serum parameters were tested. Calibrations pathological and normal control samples were run. No special maintenance has been applied on the analyzer.	Parameters te IgA IgM IgG Bilirubin		her parameters observed IgA Pat IgA Norm 10 20 30 40 50 10 10 20 30 40 50 10 10 10 10 10 10 10 10 10 1
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No decline of analyzer performance was observed